

ABSTRACT OF THE DISCLOSURE

A method of forming a transferring surface onto a producing die to produce an optical element, wherein the transferring surface transfers an optical surface onto the produced optical element, the method comprising the steps of: cutting a material so as to form the transferring surface with a curvature; wherein the material has a hardness not smaller than Rockwell hardness HRA 80 or Vickers hardness Hv 1000 and the cutting step is conducted with a critical cutting-in depth of 5 μm or less for the material.